

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at Page 11, Line 22 of the specification with the following paragraph:

If delivery transducer 28 is determined to be functioning properly in step 216, controller 42 then proceeds ~~to energize~~ to de-energize delivery solenoid 24 to vent to atmosphere, step 454, and to diagnose check valve 38. A malfunction of check valve 38 can be caused by contamination on the seal surface of the valve or a cocked valve seat 136 (FIG. 19). In the prior art, a malfunction of check valve 38 potentially allowed tire 14 to deflate by exhausting back through the system. Tire inflation system 10 of the present invention prevents deflation of tire 14 should check valve 38 malfunction, by using delivery pressure transducer 28 to check for a pressure rise or build-up in second and third pneumatic conduits 16b, 16c and sealing exhaust of delivery solenoid 24.